

1      What is claimed:

2      1. A radio frequency radiation shield unit for wireless telephones comprising:

3              an upright oriented front wall member having a front surface, a rear surface, a height H1,

4              a top edge, a left edge, a right edge and a bottom edge;

5              an upright oriented rear wall member having a front surface, a rear surface, a height H1, a

6              top edge, a left edge, a right edge and a bottom edge; said rear wall member having an upper

7              portion and a lower portion;

8              spacing means for laterally spacing said front wall member from said rear wall member to

9              form a primary chamber therebetween; said primary chamber having a top end and a bottom end;

10              attachment means for securing said front wall member to said rear wall member; and

11              means for attaching said rear wall member to the antenna of a wireless telephone.

12      2. A radio frequency radiation shield unit for wireless telephones as recited in claim 1

13              wherein said rear wall member is fabricated of a plastic material having carbon fibers therein for

14              absorbing and dispersing radio frequency radiation (RFR).

15      3. A radio frequency radiation shield unit for wireless telephones as recited in claim 1

16              wherein said rear surface of said upper portion of said rear wall member has a concave

17              configuration.

18      4. A radio frequency radiation shield unit for wireless telephones as recited in claim 1

19              wherein said primary chamber extends substantially from said top edge to said bottom edge of

20              said respective front and rear wall members.

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1           5. A radio frequency radiation shield unit for wireless telephones as recited in claim 1  
2 further comprising at least one membrane positioned in said primary chamber between said rear  
3 surface of said front wall member and said front surface of said rear wall member; said  
4 membranes being made of carbon fiber material that has been cut into strips and tightly woven  
5 together.

6           6. A radio frequency radiation shield unit for wireless telephones as recited in claim 5  
7 wherein said primary chamber extends substantially from said top edge to said bottom edge of  
8 said respective front and rear wall members.

9           7. A radio frequency radiation shield unit for wireless telephones as recited in claim 2  
10 wherein some of the RFR that is absorbed by said carbon fibers of said rear wall member is  
11 directed into a flow of electrons and said radio frequency radiation shield unit has ground means  
12 having a first end and a second end, said first end being connected to said flow of electrons.

13           8. A radio frequency radiation shield unit for wireless telephones as recited in claim 7  
14 wherein said second end of said ground means is external said rear surface of said rear wall  
15 member where said second end can freely contact the hand of a person using the wireless  
16 telephone.

17           9. A radio frequency radiation shield unit for wireless telephones as recited in claim 7  
18 further comprising at least one membrane positioned in said primary chamber between said rear  
19 surface of said front wall member and said front surface of said rear wall member; said  
20 membranes being made of carbon fiber material that has been cut into strips and tightly woven  
21 together.

1           10. A radio frequency radiation shield unit for wireless telephones as recited in claim 9  
2       wherein some of the RFR that is absorbed by said carbon fibers of said rear wall member are  
3       directed into a flow of electrons and said radio frequency radiation shield unit has grounding  
4       means having a first end and a second end, said first end being connected to said flow of  
5       electrons.

6           11. A radio frequency radiation shield unit for wireless telephones as recited in claim 1  
7       wherein said means for securing said rear wall member to the antenna of a wireless telephone  
8       comprises an upright oriented tubular collar connected to said rear surface of said lower portion  
9       of said rear wall; said tubular collar having an open top end and an open bottom end and a height  
10      H1; said tubular collar having a minor chamber extending from said open top end to said open  
11      bottom end;

12           12. A radio frequency radiation shield unit for wireless telephones as recited in claim 11  
13       further comprising an aperture in said rear wall member in communication with said primary  
14       chamber and said minor chamber.

15           13. A radio frequency radiation shield unit for wireless telephones as recited in claim 12  
16       wherein said front wall member is fabricated of a plastic material having carbon fibers therein for  
17       absorbing and dispersing radiation.

18           14. A radio frequency radiation shield unit for wireless telephones as recited in claim 12  
19       wherein said RFR that is absorbed by said carbon fibers of said rear wall member are directed  
20       into a flow of electrons and said radio frequency radiation shield unit has grounding means  
21       having a first end and a second end, said first end being connected to said flow of electrons; and

1 said grounding means comprises an electrical wire.

2       15. A radio frequency radiation shield unit for wireless telephones as recited in claim 14  
3 wherein said electrical wire passes through said aperture in said rear wall member.

4       16. A radio frequency radiation shield unit for wireless telephones as recited in claim 15  
5 further comprising a brass button rivet connected to said rear end of said electrical wire.

6       17. A radio frequency radiation shield unit for wireless telephones as recited in claim 16  
7 further comprising a tubular rubber boot that is compressibly inserted into said tubular collar;  
8 said tubular rubber boot having a top end and a bottom end, said tubular collar having a bore hole  
9 extending from said top end to said bottom end for removably receiving the antenna of a wireless  
10 telephone.

11       18. A radio frequency radiation shield unit for wireless telephones as recited in claim 17  
12 further comprising an upright oriented elongated leg member having a top end, a bottom end and  
13 a front surface; a groove extends along said front surface of said leg member from said top end to  
14 said bottom end; a portion of the length of said electrical wire is removably captured in said  
15 groove.

16       19. A radio frequency radiation shield unit for wireless telephones as recited in claim 18  
17 further comprising a disk member formed on said bottom end of said leg member and an aperture  
18 is formed in said disc member for receiving said brass button rivet.

19       20. A radio frequency radiation shield unit for wireless telephones as recited in claim 1  
20 wherein H1 is in the range of .75.-3.0 inches.

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